		Aeronautics Educa	ator Guide				
2009 Mathematics							
Standards of Learning							
Virginia Mathematics							
Grade 2							
Activity/Lesson	State	Standards					
Air Engines (12-16)	VA	MA.2.2.11.a	The student will estimate and measure length to the nearest centimeter and inch				
Flight: Interdisciplinary Learning Activities (76- 79)		MA.2.2.4.a	The student will count forward by twos, fives, and tens to 100, starting at various multiples of 2, 5, or 10				
Flight: Interdisciplinary Learning Activities (76- 79)		MA.2.2.19	The student will analyze data displayed in picture graphs, pictographs, and bar graphs.				
We Can Fly, You and I: Interdisciplinary Learning (107-108)	VA	MA.2.2.19	The student will analyze data displayed in picture graphs, pictographs, and bar graphs.				
Dunked Napkin ( 17-22)	VA	MA.2.2.18	The student will use data from experiments to predict outcomes when the experiment is repeated.				
Dunked Napkin ( 17- 22)	VA	MA.2.2.19	The student will analyze data displayed in picture graphs, pictographs, and bar graphs.				
Paper Bag Mask (23- 28)	VA	MA.2.2.16	The student will identify, describe, compare, and contrast plane and solid geometric figures (circle/sphere, square/cube, and rectangle/rectangular prism).				
Paper Bag Mask (23- 28)	VA	MA.2.2.18	The student will use data from experiments to predict outcomes when the experiment is repeated.				
Wind in you Socks) (29-35)	VA	MA.2.2.11.a	The student will estimate and measure length to the nearest centimeter and inch				
Right Flight (52-59)	VA	MA.2.2.18	The student will use data from experiments to predict outcomes when the experiment is repeated.				
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		Aeronautics Educa	ator Guide				
		2009 Mathem					
		Standards of Le	earning				
Virginia Mathematics							
Grade 3							
Activity/Lesson	State	Standards					
Air Fraince (40.40)	\/A	MA 2 2 2 5	The student will estimate and use U.S. Customary and metric units to measure length to the nearest 1/2-inch, inch, foot, yard,				
Air Engines (12-16)	VA	MA.3.3.9.a	centimeter, and meter  The student will estimate and use U.S.  Customary and metric units to measure liquid				
Air Engines (12-16)	VA	MA.3.3.9.b	volume in cups, pints, quarts, gallons, and liters				

Air Engines (12-16)	VA	MA.3.3.9.c	kilograms; and
D ( M ( (00.75)		144 0 0 47 1	The student will construct a line plot, a picture
Rotor Motor (69-75)	VA	MA.3.3.17.b	graph, or a bar graph to represent the data; and
			The student will read and interpret the data
			represented in line plots, bar graphs, and picture
Rotor Motor (69-75)	VA	MA.3.3.17.c	graphs and write a sentence analyzing the data
			The student will collect and organize data, using
Making Time Fly (80-			observations, measurements, surveys, or
86)	VA	MA.3.3.17.a	experiments
We Can Fly, You and			The attendant will determine along a division in an
I: Interdisciplinary	\/^	MA.3.3.11.b	The student will determine elapsed time in one-
Learning (107-108)	VA	IVIA.3.3.11.D	hour increments over a 12-hour period  The student will collect and organize data, using
Dunked Napkin ( 17-			observations, measurements, surveys, or
22)	VA	MA.3.3.17.a	experiments
,			·
			The student will read and interpret the data
Dunked Napkin (17-			represented in line plots, bar graphs, and picture
22)	VA	MA.3.3.17.c	graphs and write a sentence analyzing the data
			The student will identify, describe, compare, and
			contrast characteristics of plane and solid geometric figures (circle, square, rectangle,
			triangle, cube, rectangular prism, square
			pyramid, sphere, cone, and cylinder) by
			identifying relevant characteristics, including the
			number of angles, vertices, and edges, and the
Paper Bag Mask (23-			number and shape of faces, using concrete
28)	VA	MA.3.3.14	models.
Mind in Cools			The student will collect and organize data, using
Wind in you Socks) (29-35)	VA	MA.3.3.17.a	observations, measurements, surveys, or experiments
(29-33)	VA	IVIA.3.3.17.a	схреннено
		Aeronautics Educa	ator Guide
		2009 Mathem	
		Standards of Le	earning
Virginia Mathematics	<b>3</b>		
Grade 4 Activity/Lesson	State	Standards	
Activity/Lesson	State	Standards	The student will estimate and measure
			weight/mass and describe the results in U.S.
Air Engines (12-16)	VA	MA.4.4.6.a	Customary and metric units as appropriate; and
We Can Fly, You and			
I: Interdisciplinary			The student will determine elapsed time in hours
Learning (107-108)	VA	MA.4.4.9	and minutes within a 12-hour period.
Denes Des M. 1. (00			The student will estimate and measure
Paper Bag Mask (23-	\/A	MA 4 4 6 a	weight/mass and describe the results in U.S.
28)	VA	MA.4.4.6.a	Customary and metric units as appropriate; and

Paper Bag Mask (23-			The student will investigate congruence of plane figures after geometric transformations, such as reflection, translation, and rotation, using
28)	VA	MA.4.4.11.a	mirrors, paper folding, and tracing; and
			The student will estimate and measure
Wind in you Socks)			weight/mass and describe the results in U.S.
(29-35)	VA	MA.4.4.6.a	Customary and metric units as appropriate; and